

Combat Identification & Situational Awareness (CID/SA) for Dismounted Combatants

Purpose: Evaluate systems that provide the dismounted Marine the ability to actively query unknown persons and receive a response from a similarly equipped combatant and/or systems that provide awareness of the location of other Marines.

Background: Identification and location awareness of friendly dismounted combatants is an area of particular concern, especially in the urban battlespace, our most likely area of future operations. Current capability consists of a rifle-mounted system based on a laser request and radio frequency return, with Global Positioning System (GPS) based centralized tracking system.

Description: A rifle-mounted laser illuminator and display system. The laser is used to query the unknown person and the display indicates if a friendly response is received. Laser sensors are mounted on the helmet and a web harness system. The sensors signal the main controller to generate a response signal when a friendly laser is detected. The main controller also provides a location signal to a central monitoring computer. Location is based on a GPS receiver mounted on the web system. The central monitoring computer can overlay team locations on a two-dimensional map of the operation area. Boeing Corp. has delivered one squad's worth of systems for experimentation. These units have been temporarily loaned to the U.S. Army's Dismounted Battlespace Battlelab for training. Motorola Corp. has developed a similar system for the U.S. Army, and the Lab received thirteen systems for experimentation undergoing limited technical assessments (LTAs) and examination during Millennium Dragon 2002.



Deliverable Product(s): Universal Needs Statement (UNS) to Marine Corps Combat Development Command and refinement of Combat Identification Mission Needs Statement. Also, prototype equipment to Marine Corps System Command's Combat Identification Program Office.

Milestones:



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